Exercise Contraindications and Key Safety Guidelines for Special Populations

Gym Webiı □	s a general guide. Please refer to your manuals and webinar for more detailed guidance Based Programme Planning and Preparation pages; 36, 43, 47, 48, 51, 52, 53 hars on eLearning; Muscular, Strength, Endurance (MSE) Theory Webinar L2 Gym Instructor Special Populations Webinar
	People 65+ Increased susceptibility to fractures
	Decreased joint stability
	Less shock absorbency
	Kyphotic posture
	Stiffness Decreased aerobic capacity
	ises to avoid (depending on the individual)
	High Impact
	Flexion (spinal) type activities
	Complex choreography
	High intensity Anaerobic
	ises to perform
	Longer pulse raiser (10-15 minutes) Maximum RPE 3/4
	Mobility and stretching
	Back extension (particularly thoracic)
	Interval type CV - New to exercise; start with moderate activity RPE 5/6 Can build up to vigorous activity RPE 7/8 over time (2 minutes moderate is the equivalent of 1 minute
_	vigorous).
	Functional activities
	Multi joint (compound) activities
	MSE - 10-15 reps body weight, resistance bands, light weights, 1 set can build up to 2 or 3 Start with 60-70%1RM (for a deconditioned client, dependent on rep range) can build up to 80% 1RM
Ц	for the lower rep range for postural areas.
	Balance activities (offer support)
	Core stability activities
	Stretching appropriate postural muscles
Youn	g people (13-18)
	Implications of the incomplete fusing of the epiphyseal plate - Susceptibility to damage
	Considerations for exercise, in particular avoid high intensity strength training
	Smaller heart & lungs, adolescents will need regular active rest to recover, cool down & take in water
	ises to perform Adolescents may need a shorter warm-up and cool down compared to an adult.
	Interval based aerobic training
	Body weight
	Functional activities such as pulling/pushing
	Activities to develop motor skills: balance and co-ordination
	ACSM MSE Guidelines; 1-3 sets, Between 8 and 20 reps dependant on age and experience. 40-60% 1RM for 15-20 reps. Maximum of
ш	80% 1RM for 8 reps - (no less than 8 reps - max 80% 1RM) 1-2 minutes rest period, Slow to moderate
	speed
	Body-weight exercises adapted for strength or endurance by increasing the length of the lever or by
	changing body position or the angle of the movement. Start with lighter work, such as band work (20
п	reps maximum), moving on to heavier weights (8 reps minimum) Some muscles benefit from developmental stretching due to the rapid bone growth during a growth
Ц	spurt however a 'go back to' stretch approach is more appropriate.
	Exercises to avoid
	Prolonged high intensity (anaerobic) activity
	High resistance (low reps)
	Excessive weight and power lifting is definitely not recommended for adolescents.